



SEQUENCE LISTING

<110> Ellington, Andrew
Hesselberth, Jay
Marshall, Kris
Robertson, Michael
Sooter, Letha
Davidson, Eric
Cox, J. Colin
Reidel, Timothy

<120> Regulatable, Catalytically Active Nucleic Acids

<130> TEXAS-11147

<140> 09/883,119
<141> 2001-06-14

<160> 67

<170> PatentIn version 3.3

<210> 1
<211> 129
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 1
taatcttacc ccggaattat atccagctgc atgtcaccat gcagagcaga ctatatctcc 60
aacttggttaa agcaagttgt ctatcgtttc gagtcacttg accctactcc ccaaagggat 120
agtcgtttag 129

<210> 2
<211> 131
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 2
gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
caatcccgtg ctaaattata ccagcatcgt cttgatgccc ttggcagata aatgcctaac 120
gactatccct t 131

<210> 3
 <211> 75
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 3
 gataatacga ctactatag ggatcaacgc tcagtagatg ttttcttggg ttaattgagg 60
 cctgagtata aggtg 75

 <210> 4
 <211> 89
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 4
 cttagctaca atatgaacta acgtagcata tgacgcaata ttaaaccggta gcattatggt 60
 cagataaggt cgttaatctt accccggaa 89

 <210> 5
 <211> 131
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (77)..(77)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (108)..(108)
 <223> n is a, c, g, or t

 <400> 5
 gcctgagtat aaggtgactt atactagtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtg ctaaataata ccagcatcgt cttgatgccc ttggcagnta aatgcctaac 120
 gactatccct t 131

<210> 6
 <211> 101
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 6
 cttagctaca atatgaacta acgtagcata tgacgcaata ttaaaccggtg gtattatggt 60
 cagataaggt cgttaatctt accccggaat tctatccagc t 101

 <210> 7
 <211> 116
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (37)..(86)
 <223> n is a, c, g, or t

 <400> 7
 ttctaatacg actcactata ggacctcggc gaaagcnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnngagg ttaggtgcct cgtgatgtcc agtcgc 116

 <210> 8
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 8
 ttctaatacg actcactata 20

 <210> 9
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 9
 gcgactggac atcacgag 18

<210>	10	
<211>	36	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	10	
	ttctaatacg actcactata ggacctcggc gaaagc	36
<210>	11	
<211>	80	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	11	
	gggaauaggau ccacaucuac gaauucgagu cgagaacugg ugcgaaugcg aguaaguuca	60
	cuccagacuu gacgaagcuu	80
<210>	12	
<211>	82	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	12	
	gggaauaggau ccacaucuac gaauucguag cguagaguau gagagagcca aggucagguu	60
	cacuccagac uugacgaagc uu	82
<210>	13	
<211>	80	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	13	
	gggaauaggau ccacaucuac gaauucauca gggcuaaaga gugcagaguu acuuaguuca	60
	cuccagacuu gacgaagcuu	80

<210> 14
 <211> 211
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 14
 gacuaauaug auuuggucuc auuaaagauc acaaaauugcu ggaaacuccu uugaggcuag 60
 gacaaucagc aaggaaguua acauauaaug uuaaaacccu cagagacuag acgugaucu 120
 uuaauagacg ccuugcgguu cuuauuagau aagguauagu ccaaauuugu auguaauac 180
 aaaaugauaa aaaaaaauga aaucuaugg g 211

 <210> 15
 <211> 80
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (27)..(56)
 <223> n is a, c, g, t or u

 <400> 15
 gggaauggau ccacaucuac gaauucnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnuuca 60
 cuccagacuu gacgaagcuu 80

 <210> 16
 <211> 122
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 16
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtg ctaaattgta ggactgcccg ggttctacat aaatgcctaa cgactatccc 120
 tt 122

<210>	17	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	17	
	ttatactagt aatctatcta aacg	24
<210>	18	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	18	
	cccggaattc tatccagctg catg	24
<210>	19	
<211>	94	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	19	
	gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga	60
	caatcccgtg ctaaatgcct aacgactatc cctt	94
<210>	20	
<211>	131	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	20	
	gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga	60
	caatcccgtg ctaaattata ccagcatcgt cttgatgccc ttggcagata aatgcctaac	120
	gactatccct t	131

<210> 21
 <211> 133
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 21
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtg ctaaattgat accagcatcg tcttgatgcc cttggcagca taaatgccta 120
 acgactatcc ctt 133

<210> 22
 <211> 119
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 22
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtg cataccagca tcgtcttgat gcccttggca ggcctaacga ctatccctt 119

<210> 23
 <211> 129
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 23
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtg ctaaataac cagcatcgtc ttgatgccct tggcagtaaa tgcctaacga 120
 ctatccctt 129

<210> 24
 <211> 115
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 24
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgta taccagcatc gtcttgatgc ccttggcagc taacgactat ccctt 115

 <210> 25
 <211> 117
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 25
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgta ataccagcat cgtcttgatg cccttggcag cctaacgact atccctt 117

 <210> 26
 <211> 144
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 26
 tgagtataag gtgacttata ctagtaatct atctaaacgg ggaacctcta taccagcatc 60
 gtcttgatgc ccttggcaga gacaatcccg tgctaaattg taggactgcc cgggttctac 120
 ataaatgcct aacgactatc cctt 144

 <210> 27
 <211> 140
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 27
 tgagtataag gtgacttata ctagtaattct atctaaacgg ggaacctata ccagcatcgt 60
 cttgatgccc ttggcagaca atcccgtgct aaattgtagg actgcccggg ttctacataa 120
 atgcctaacg actatccctt 140

<210> 28
 <211> 107
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 28
 gtaatctatc taaacgggga acctctctag tagacaatcc cgtgctaaat tgataccagc 60
 atcgtcttga tgccattggc agcataaatg cctaacgact atccctt 107

<210> 29
 <211> 107
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 29
 gtaatctatc taaacgggga acctctctag tagacaatcc cgtgctaaat tgataccagc 60
 atcgtcttga tgcccttggt tgcataaatg cctaacgact atccctt 107

<210> 30
 <211> 122
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 30
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtg ctaaattagg atatgcttcg gcagaaggat aaatgcctaa cgactatccc 120
 tt 122

<210> 31
 <211> 124
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 31
 gcctgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
 caatcccgtag ctaaattgag gatatgcttc ggcagaaggc ataaatgcct aacgactatc 120
 cctt 124

 <210> 32
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 32
 gataatacga ctactataa tggcattacc gccttgt 37

 <210> 33
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 33
 gctctagact tagctacaat atgaac 26

 <210> 34
 <211> 28
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 34
 aaaaaaaaaa aaaaaaaaaa aaugcacu 28

<210> 35
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (37)..(47)
 <223> n is a, c, g, or t

 <400> 35
 cggaagcaag gagagacgtc cttggaggag caagggnnnn nnnnnnngtc ttacagtcag 60
 t 61

 <210> 36
 <211> 54
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (14)..(17)
 <223> n is a, c, g, or t

 <400> 36
 cagagcatta aggnnnnacg ggtgactcct tagttaggct cccgttagtt tagg 54

 <210> 37
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (39)..(43)
 <223> n is a, c, g, or t

 <400> 37
 cagagcatga agcggccacg ggtgggatgt tgcccttgnn nngtcagtc tygcg 55

<210> 38
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 38
 aggaaccccc agattgtgtc gggctgttat gcgtcgttta ttgagattac 50

 <210> 39
 <211> 49
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 39
 cagtacgtta atatcccgga gctaggtgct tcttgtggac agttatggg 49

 <210> 40
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 40
 gcacacagca ctatattgct tggtcggagc gtttcgttta ttgagtttac 50

 <210> 41
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t

 <400> 41
 taacgtctca tggctaaatt gccatgtntg ctacaaatga tatgactaga 50

<210> 42
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 42
taacgaagac tttggtgacc ggctagtctt ctattaatga gatgacgaga

50

<210> 43
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is a, c, g, or t

<400> 43
taactccgc acttaggaac gggtagctgga ntaaaaatga tatgacgaga

50

<210> 44
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

<400> 44
tttaaaacga gagaattggc agtaccgtgc tnggttccga gataacgaga

50

<210> 45
 <211> 270
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 45
 uuggguuaau ugagggccuga guauaaggug acuuauacuu gaaucuauc uaaacgggga 60
 accucucuag uagacaaucc cgugcuaaa uguaggacug gddcbacaua aaugccuaac 120
 gacuaucccu uuggggagua gggucaagug acucgaaacg auagacaacu ugcuuuaaga 180
 aguuggagau auagucugcu cugcauggug acaugcagcu ggauauaaau ccgggguaag 240
 auaaacgacc uuaucugaac auaaugcuac 270

<210> 46
 <211> 82
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 46
 uaaacgggga accucucuag uagacaaucc cgugcuaaa uauaccagca ucgucuugau 60
 gcccuuggca gauaaaugcc ua 82

<210> 47
 <211> 84
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 47
 uaaacgggga accucucuag uagacaaucc cgugcuaaa ugauaccagc aucgucuuga 60
 ugcccuuggc agcauaaaug ccua 84

<210> 48
 <211> 40
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 48
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau 40

 <210> 49
 <211> 30
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 49
 auaccagcau cgucucaug ccuuggcag 30

 <210> 50
 <211> 10
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 50
 uaaaugccua 10

 <210> 51
 <211> 130
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 51
 ggacuucggg ccagugcucg ugcacuaggc cguucgacca uguggguccg cugccagcgg 60
 caaucuggca ugcuaugcgg aaccuucaca ucuuagacag gagguuaggu gccucgugau 120
 guccagucgc 130

<210>	52	
<211>	16	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	52	
	ggaccucggc gaaagc	16
<210>	53	
<211>	30	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	53	
	gagguuaggu gccucgugau guccagucgc	30
<210>	54	
<211>	96	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	54	
	ggaccucggc gaaagccgga agcaaggaga gacguccuug gaggagcaag gggucuuaca	60
	gucagugagg uuaggugccu cgugaugucc agucgc	96
<210>	55	
<211>	73	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	55	
	uaaacgggga accucucuag uagacaaucc cgugcuaaaau uaggauaugc uucugcagaa	60
	ggauaaaugc cua	73

<210> 56
 <211> 75
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 56
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau ugaggauaug cuucugcaga 60
 aggcauaaaau gccua 75

 <210> 57
 <211> 45
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 57
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau gccua 45

 <210> 58
 <211> 84
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 58
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau ugauaccagc aucgucuuga 60
 ugcccuuggc agcauaaaug ccua 84

 <210> 59
 <211> 70
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 59
 uaaacgggga accucucuag uagacaaucc cgugcauacc agcaucgucu ugaugcccuu 60
 ggcaggccua 70

<210> 60
 <211> 80
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 60
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau auaccagcau cgucuucaug 60
 cccuuggcag uaaaugccua 80

 <210> 61
 <211> 66
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 61
 uaaacgggga accucucuag uagacaaucc cguauaccag caucgucuug augcccuugg 60
 cagcua 66

 <210> 62
 <211> 68
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 62
 uaaacgggga accucucuag uagacaaucc cgugauacca gcaucgucuu gaugcccuug 60
 gcagccua 68

 <210> 63
 <211> 98
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 63
 uaaacgggga accucuaauac cagcaucguc uugaugcccu uggcagagac aaucccgugc 60
 uaaauguag gacugcccgg guucuacaua aaugccua 98

<210> 64
 <211> 94
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 64
 uaaacgggga accuauacca gcaucgucuu gaugcccuug gcagacaauc ccgugcuaaa 60
 uuguaggacu gcccggguuc uacauaaaug ccua 94

 <210> 65
 <211> 84
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 65
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau ugauaccagc aucgucuuga 60
 ugccauuggc agcauaaaug ccua 84

 <210> 66
 <211> 84
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 66
 uaaacgggga accucucuag uagacaaucc cgugcuaaaau ugauaccagc aucgucuuga 60
 ugcccuuggu ugcauaaaug ccua 84

<210> 67
<211> 96
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (17)..(66)
<223> n is a, c, g, t or u

<400> 67
ggaccucggc gaaagcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnngagg uuaggugccu cgugaugucc agucgc 96